Online ION/PH Meter T6200

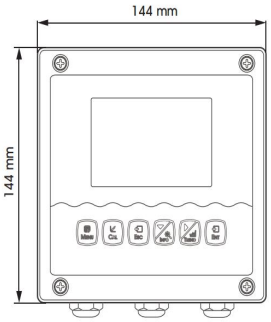
Function

Industrial on-line ION/Conductivity transmitter is an on-line water quality dual channel monitoring and control instrument with microprocessor.

The ION value, PH value and temperature value of aqueous solution were continuously monitored and controlled.

Typical Use

The instrument is equipped with different types of ION and pH sensors. Widely used in power plants, petrochemical industry, metallurgical electronics, mining, paper industry, biological fermentation engineering, medicine, food and beverage, environmental protection water treatment, aquaculture, modern agricultural planting and other industries.



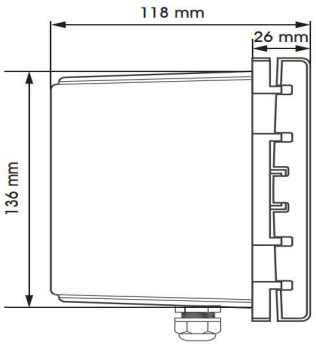
Mains Supply

85~265VAC±10%,50±1Hz, power ≤3W;

9~36VDC, power consumption≤3W;

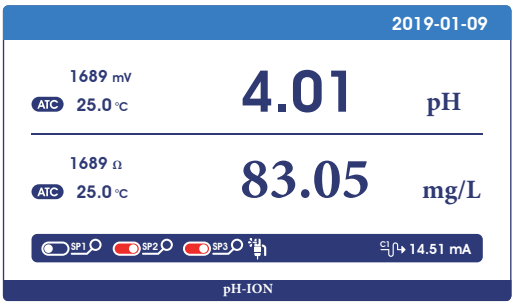
Measuring Range

ION: 0～99999mg/L;
PH: 0-14pH;
Tempreature: 0～60.0℃;

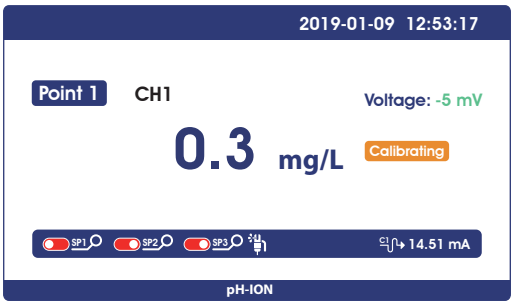


Online Ion/PH Meter T6200 Features

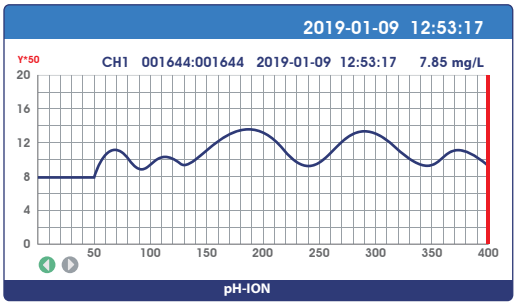
1. Large display, standard 485 communication, with online and offline alarm, 144*144*118mm meter size, 138*138mm hole size, 4.3 inch large screen display.
2. Intelligent menu operation
3. Multiple automatic calibration
4. Differential signal measurement mode, stable and reliable
5. Manual and automatic temperature compensation
6. Three relay control switches
7. 4-20mA & RS485,Multiple output modes
8. Multi parameter display simultaneously shows – Ion/ PH, Temp, current,etc.
9. Password protection to prevent misoperation by non-staff.
10. The matching installation accessories make the installation of the controller in complex working conditions more stable and reliable.
11. High & low alarm and hysteresis control. Various alarm outputs. In addition to the standard two-way normally open contact design, the option of normally closed contacts is also added to make the dosing control more targeted.
12. The 3-terminal waterproof sealing joint effectively prevents water vapor from entering, and isolates the input, output and power supply, and the stability is greatly improved. High resilience silicone keys, easy to use, can use combination keys, easier to operate.
13. The outer shell is coated with protective metal paint, and safety capacitors are added to the power board, which improves the strong magnetic anti-interference ability of industrial field equipment. The shell is made of PPS material for more corrosion resistance. The sealed and waterproof back cover can effectively prevent water vapor from entering, dustproof, waterproof, and corrosion-proof, which greatly improves the protection capability of the whole machine.



Measurement mode



Calibration mode



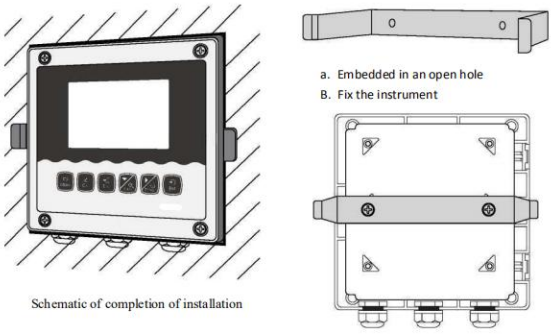
Trend chart

Setting mode

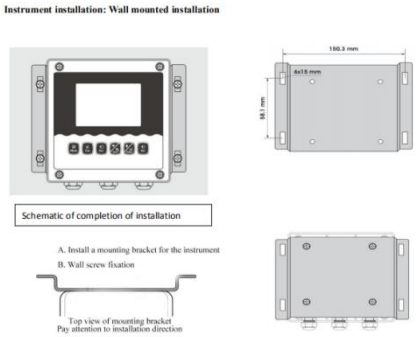
Electrical connections

Electrical connection The connection between the instrument and the sensor: the power supply, output signal, relay alarm contact and the connection between the sensor and the instrument are all inside the instrument. The length of the lead wire for the fixed electrode is usually 5-10 meters, and the corresponding label or color on the sensor Insert the wire into the corresponding terminal inside the instrument and tighten it.

Instrument installation method



Embedded installation

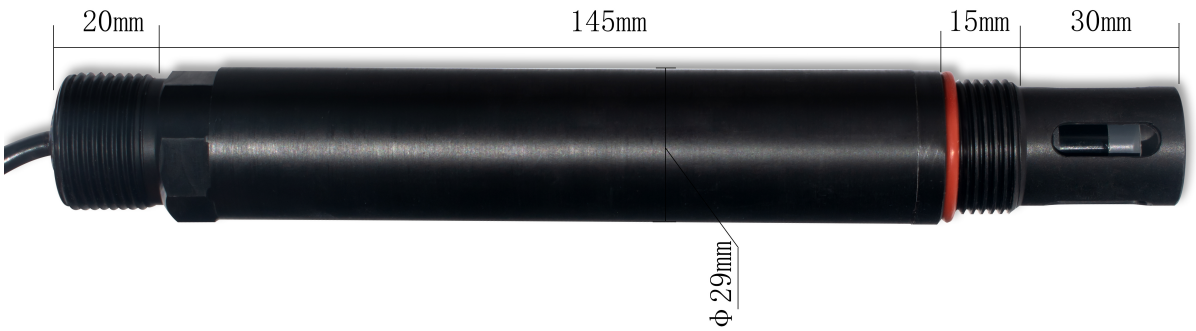


Wall mount

Technical specifications

Measuring range	ION:0~99999mg/L; PH:0~14PH,
Unit	mg/L, pH
Resolution	ION:0.01mg/L; pH:0.01pH
Basic error	ION:±0.1mg/L; pH:±0.1pH
Temperature	-10~150.0°C(Depend on the Sensor)
Temp. resolution	0.1°C
Temp. accuracy	±0.3°C
Temp. compensation	0~150.0°C
Temp. compensation	Manual or automatic
Stability	ION:≤0.01mg/L/24h; EC: ≤1ms/cm /24h
Current outputs	Two 4~20mA,20~4mA,0~20mA
Signal output	RS485 MODBUS RTU
Other functions	Data record &Curve display
Three relay control contacts	5A 250VAC,5A 30VDC
Optional power supply	85~265VAC,9~36VDC,power consumption≤3W
Working conditions	No strong magnetic field interference around except the geomagnetic field.
Working temperature	-10~60°C
Relative humidity	≤90%
Waterproof rating	IP65
Weight	0.8kg
Dimensions	144×144×118mm
Installation opening size	138×138mm
Installation methods	Panel & wall mounted or pipeline

Digital ISE Sensor Series



Review

Easy to connect to PLC, DCS, industrial control computers, general purpose controllers, paperless recording instruments or touch screens and other third party devices.
The CS6714AD ammonium ion selective electrode is an effective method to measure the ammonium ion content in the sample. Ammonium ion selective electrodes are also often used in online instruments, such as industrial online ammonium ion content monitoring. Ammonium ion selective electrode has the advantages of simple measurement, fast and accurate response. It can be used with PH meter, ion meter and online ammonium ion analyzer, and also used in electrolyte analyzer, and ion selective electrode detector of flow injection analyzer.

Features

large sensitive area fast response, stable signal

PP material，

Work well at 0~50℃。

The lead is made of pure copper, which can directly realize remote transmission, which is more accurate and stable than the lead signal of copper-zinc alloy.

Wiring

4~20mA output:

① Black V-，② Transparent line V+， Power supply

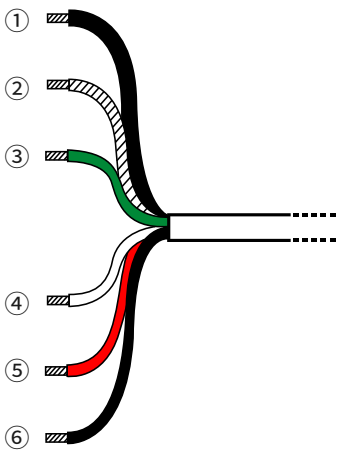
③ Green I +，④ White I -，Current

⑤ Red A，⑥ Black B，Communication

RS485 output:

① Red V+, ② Black V-, Power supply

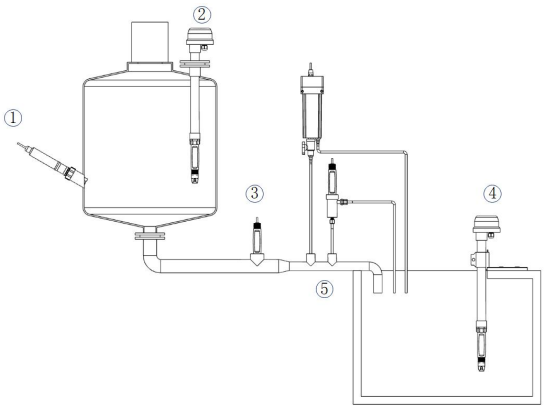
③ Green RS485A， ④ White RS485B，



Waterproof and durable
IP68

Adopt PTFE large ring
diaphragm, long life time

Installation



(Common electrode installation)

(Mounting brackets)

Technicals

Parameter	CS6714AD
Measured Range	0~1000mg/L(Customizable)
Principle	Ion selective sensor
Temp Range	0-50℃
Output Signal	RS485 or 4-20mA
Pressure Range	0—0.1MPa
Temperature Sensor	NTC10K
Housing Materials	PP+PVC
Membrane Resistance	＜500MΩ
Calibration	Standard liquid calibration
Accuracy	±2.5%
Resolution	0.1mg/L
Connection method	4 or 6 core cable
Threaded connection	NPT3/4"
Cable Length	10m or Customize
Wire Connection	Pin, BNC or Customize

CS6712A Potassium Ion Sensor

The potassium ion selective electrode is an effective method to measure the potassium ion content in the sample. Potassium ion selective electrodes are also often used in online instruments, such as industrial online potassium ion content monitoring. , Potassium ion selective electrode has the advantages of simple measurement, fast and accurate response. It can be used with PH meter, ion meter and online potassium ion analyzer, and also used in electrolyte analyzer, and ion selective electrode detector of flow injection analyzer.

Application: Determination of potassium ions in feedwater treatment of high-pressure steam boilers in power plants and steam power plants. Potassium ion selective electrode method; potassium ion selective electrode method for determination of potassium ions in mineral water, drinking water, surface water and seawater; potassium ion selective electrode method. Determination of potassium ions in tea, honey, feed, milk powder and other agricultural products; potassium ion selective electrode method for determination of potassium ions in saliva, serum, urine and other biological samples; potassium ion selective electrode method for determination of content in ceramic raw materials.

Product advantages:

- CS6712A potassium ion sensor is solid membrane ion selective electrodes, used to test potassium ions in water, which can be fast, simple, accurate and economical;
- The design adopts the principle of single-chip solid ion selective electrode, with high measurement accuracy;
- PTEE large-scale seepage interface, not easy to block, anti-pollution Suitable for wastewater treatment in the semiconductor industry, photovoltaics, metallurgy, etc. and pollution source discharge monitoring;
- High-quality imported single chip, accurate zero point potential without drift ;

Model No.	**CS6712A**
Power	9~36VDC
Measuring method	Ion electrode method
Housing material	PP
Size	Diameter 30mm*length 160mm
Waterproof rating	IP68
Measurement range	0.04~39000ppm
Accuracy	±2.5%
Pressure range	≤0.1Mpa
Temperature compensation	NTC10K
Temperature range	0-50℃
Calibration	Sample calibration, standard liquid calibration
Connection methods	4 core cable
Cable length	Standard 10m cable or extend to 100m
Mounting thread	NPT3/4''
Application	General application, river, lake, drinking water environmental protection, etc.